

M 5.1, 99 km SSE of San Jose Village, Northern Mariana Islands

Origin Time: 2022-05-23 18:45:15 UTC (Tue 04:45:15 local)
Location: 14.1179° N 145.9341° E Depth: 81.7 km

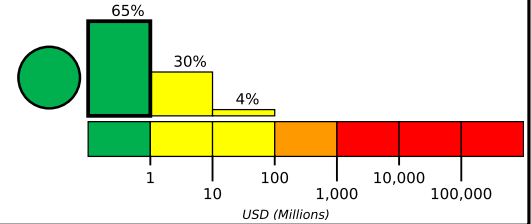
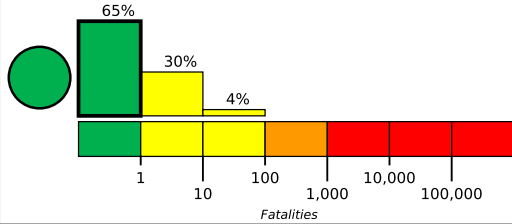
PAGER Version 4

Created: 2 hours, 15 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

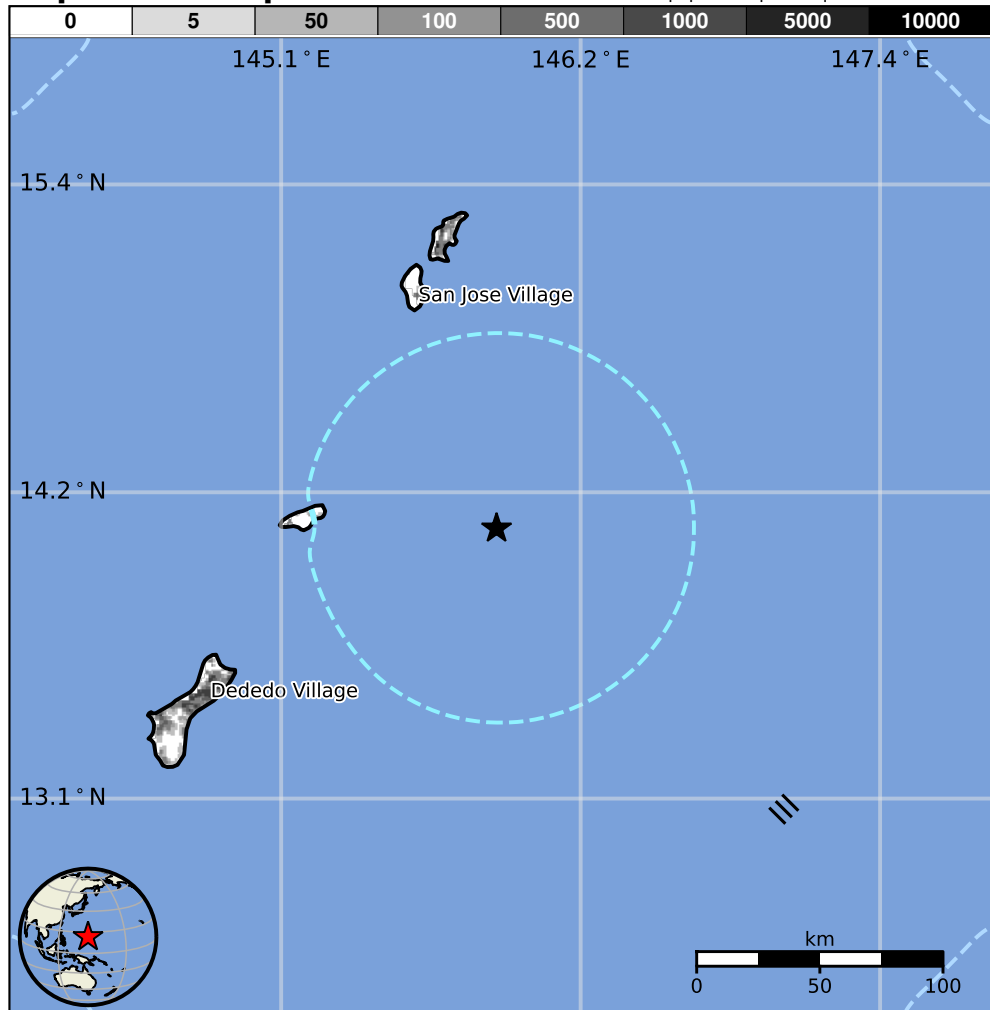


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 228k | 1k | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2001-10-12 | 180 | 7.0 | VII(48k) | 0 |
| 2002-04-26 | 177 | 7.0 | VIII(2k) | 0 |
| 1993-08-08 | 169 | 7.7 | IX(3k) | 0 |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|-------------------------------|------------|
| III | San Jose Village | 15k |
| III | Saipan | 48k |
| III | Barrigada Village | 9k |
| III | Sinajana Village | 3k |
| III | Yigo Village | 21k |
| III | Hagatna Village | 1k |
| III | Dededo Village | 45k |
| III | Mangilao Village | 15k |
| III | Mongmong-Toto-Maite Village | 7k |
| III | Tamuning-Tumon-Harmon Village | 20k |
| III | Santa Rita Village | 8k |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000hbzi#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000hbzi